
Administration

Listed in this chapter are the six steps required to configure a Flexible Numbering Plan:

- 1 Configure Network Control (NCTL) data block in LD 87 (ESN2) as required.
- 2 Configure Route Data Blocks (RDB) and trunks as required.
- 3 Configure Electronic Switched Network (ESN) data block through LD 86 (ESN1) and ensure the following parameters are configured. [See “Electronic Switched Network data” on page 34.](#)
- 4 Configure Coordinated Dialing Plan and Free Special Number Screening as required in Electronic Switched Network (ESN) data block through LD 87 (ESN2). [See “Electronic Switched Network data” on page 36.](#)
- 5 Configure Network Translations as required in Electronic Switched Network 3 (ESN3) Translation Tables data block through LD 90 (ESN3). [See “Electronic Switched Network translation tables” on page 40.](#)
- 6 Configure Vacant Number Routing as required in Customer Data Block through LD 15. [See “Customer Data Block administration \(Pre-Release 21\)” on page 45.](#)

Electronic Switched Network data

LD 86—The Electronic Switched Network (ESN) data block administration overlay has been modified to add the MXFS and FSNI prompts, allow the creation of up to 1000 Route List Blocks and Digit Manipulation Indices, and to limit the number of Free Special Number Screening tables to 255. It is also changed to accept one to four digit access codes AC1 and AC2.

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	ESN	Electronic Switched Network data block.
MXIX	xxx	Maximum number of Incoming Trunk Group exclusion tables.
MXDM	0–1000	Maximum Digit Manipulation tables.
...		
MXFC	0-256	Maximum number of Free Calling area screening tables.
MXFS	0–255	Maximum Free Special number screening tables.
CDP	(YES) NO	Coordinated Dialing Plan.
- MXSC		Maximum Steering Codes.
	0–10000	Range for North America.
	0–32000	Range outside North America.
...		
MSCC	0-7	Maximum number of Special Common Carrier entries.
AC1	x...x	Enter one to four digit Access Code 1 (On-net access code).
AC2	x...x	Enter one to four digit Access Code 2 (Off-net access code).
...		

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	DGT	Digit manipulation.
DMI	1–99	Digit Manipulation Index.
...		

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	RLB	Route List Block.
RLI	0–999	Route List Index.
...		
FRL	(0)-7	Facility Restriction Level.
DMI	0–999	Digit Manipulation Index.
FCI	xxx(0)	Free Calling Area Screening Index number.
FSNI	(0)–255	Free Special Number screening Index. Prompted only if FNP package (160) equipped.
...		

Electronic Switched Network data

LD 87—The Electronic Switched Network 2 (ESN2) data block administration overlay is modified to accept RLI entries from 0 to 999 and DMI entries from 0 to 999 and prompt for Flexible Length (FLEN), Inhibit Time Out Handling (ITOH), and Calling Line Identification (CLID) display format. LD 87 is also modified to allow the creation, modification and printing of Free Special Number Screening (FSNS) tables.

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	CDP	Coordinated Dialing Plan.
TYPE	LSC	Local Steering Code.
LSC	x...x	Local Steering Code x...x can be one to four digits in length if DNXP package (150) is not equipped, or one to seven digits if DNXP package (150) is equipped.
- DMI	0-999	Digit Manipulation Index.
...		

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	CDP	Coordinated Dialing Plan.
TYPE	TSC	Trunk Steering Code.
TSC	x...x	Trunk Steering Code x...x can be one to four digits in length if DNXP package (150) is not equipped, or one to seven digits if DNXP package (150) is equipped.
- FLEN	(0)–16	Flexible Length Enter the maximum number of digits expected. When this number of digits is dialed, dialing is considered to be complete and end-of-dial processing begins. Default is zero (0) digits.
- ITOH	(NO) YES	Inhibit Time out Handling Prompted if FLEN set to any valid value other than zero (0). Enter NO to allow call processing to begin when the NIT timer has expired. Enter YES to allow call processing to begin only after the number of digits defined by the response to FLEN have been dialed. Default setting is NO.
...		
- RLI	0–999	Route List Index. Enter Route List Index for this TSC.
...		

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	CDP	Coordinated Dialing Plan.
TYPE	DSC	Distant Steering Code.
DSC	x...x	Distant Steering Code x...x can be one to four digits in length if DNXP package (150) is not equipped, or one to seven digits if DNXP package (150) is equipped.
- FLEN	(0)–10	Flexible Length Enter the maximum number of digits expected. When this number of digits is dialed, dialing is considered to be complete and end-of-dial processing begins. Default is zero (0) digits.
- DSP	(LSC) LOC DN	Display Used to define the display format that the far-end receives (Calling Line Identification [CLID]) when ISDN or ISL trunks are involved in the connection. Prompted if ISDN package (145) is equipped. Enter LSC if the Local Steering Code plus user Directory Number (DN) are to be displayed at the far end. Enter LOC if the Location Code plus user Directory Number (DN) are to be displayed at the far end. Enter DN if the user Directory Number (DN) is to be displayed at the far end. Default setting is LSC.
...		
- RLI	0–999	Route List Index Enter Route List Index for this DSC.
...		

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	FSNS	Free Special Number Screening.
FSNI	1–255	Free Special Number Index.
SPN	x...x	Special Number x...x can be one to eleven (1-11). SPN will be re-prompted until only a <CR> (Carriage Return) is entered.
XXX	ALLOW DENY	XXX codes to be allowed or denied Enter ALLOW to configure Special Number codes that are to be allowed. Enter DENY to configure Special Number codes that are to be denied.
- ALLOW	xxx	Allow codes Prompted if response to XXX was ALLOW xxx can be entered as a three (3) digit code, (i.e., 123, where the number 123 is allowed) or as a range of three (3) digit codes, (i.e., 100 199, where all numbers in the range 100 to 199 are allowed).
- DENY	xxx	Deny codes Prompted if response to XXX was DENY xxx can be entered as a three (3) digit code, (i.e., 123, where the number 123 is denied) or as a range of three (3) digit codes, (i.e., 100 199, where all numbers in the range 100 to 199 are denied).
...		

Electronic Switched Network translation tables

LD 90—Electronic Switched Network 3 (ESN3) Translation Tables is modified to accept RLI entries from 0 to 999 and DMI entries from 1 to 999 and prompt for Flexible Length (FLEN), Inhibit Time Out Handling (ITOH), ARRN (Alternate Routing Remote Number) and ARLI (Alternate Route List Index). The ARRN and ARLI prompts will be output when:

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	NET	Network Translator.
TRAN	AC1 AC2	Translator.
TYPE	LOC	Location Code.
LOC	x...x	Location code.
- FLEN	(0)–10	Flexible Length Enter the maximum number of digits expected. When this number of digits is dialed, dialing is considered to be complete and end-of-dial processing begins. Default is zero (0) digits.
- RLI	0–999	Route List Index Enter Route List Index for this LOC.
...		

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	NET	Network Translator.
TRAN	AC1 AC2	Translator.
TYPE	HLOC	Home Location Code.
HLOC	x...x	Home Location code (3 digits) or extended code (3-7 digits)
DMI	1-999	Digit Manipulation Index.
...		

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	NET	Network Translator
TRAN	AC1 AC2	Translator
TYPE	NPA	Numbering Plan Area code
NPA		Numbering Plan Area code translation, extended NPA code translation (a leading zero is not allowed).
	xxx	Area code translation.
	xxx yyy	Extended NPA code translation.
		3-10 digits or 4-11 digits with 1+ dialing (Release 8 and later). Enter the NPA code (xxx) and the extended code (yyy) separated by a space.
	1xxx	Area code translation (1+ dialing)
	1xxx yyy	Extended NPA code translation (1+ dialing).
		Where: xxx & yyy = 200 - 999.
...		

- RLI	0–999	Route List Index Enter Route List Index for this NPA.
- SDRR	LDID	Recognized Local Direct Inward Dial codes.
- DMI	1–999	Digit Manipulation Index
...		

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	NET	Network Translator.
TRAN	AC1 AC2	Translator.
TYPE	NXX	Numbering plan exchange code.
NXX		Numbering Plan Exchange (Central Office) (A leading zero is not allowed).
	xxx	Office code translation
	1xxx	Office code translation (1+ dialing)
	xxx yyy	Extended NXX code translation
		3-7 digits or 4-8 digits with 1+ dialing (Release 8 and later). Enter the NXX code (xxx) and the extended code (yyy) separated by a space.
	<CR>	Return to REQ.
...		
- RLI	0–999	Route List Index. Enter Route List Index for this NXX.
- SDRR	LDID	Recognized Local Direct Inward Dial codes.
- DMI	1–999	Digit Manipulation Index.
...		

Prompt	Response	Description
REQ	NEW, CHG, PRT	New, change, or print.
CUST	xx	Customer number.
FEAT	NET	Network Translator.
TRAN	AC1 AC2	Translator.
TYPE	SPN	TYPE of translation: Special Number.
SPN		Special Number
	x...x	Enter Special Number. Number can be from 1 to 11 digits.
- FLEN	(0)–16	Flexible Length Enter the maximum number of digits expected. When this number of digits is dialed, dialing is considered to be complete and end-of-dial processing begins. Default is zero (0) digits.
- ITOH	(NO) YES	Inhibit Time out Handling Prompted if FLEN set to any valid value other than zero (0). Enter NO to allow call processing to begin when the NIT timer has expired. Enter YES to allow call processing to begin only after the number of digits defined by the response to FLEN have been dialed. Default setting is NO.
- RLI		Route List Index.
	0–999	Enter Route List Index for this SPN.
- CLTP	(NONE) LOCL NATL INTL SSER SERH	Type of call that is defined by the special number. No call type. Local. National. International. Special Service. Special Service Hold.

- SDRR		Supplemental Digit Restriction or Recognition
	ARRN	Alternate Routing Remote Number
	<CR>	Enter a Carriage Return by itself to have ITEI prompted.
- ARRN		Alternate Routing Remote Number
	x...x	Enter zero to seven digit Alternate Routing Remote Number.
		Note: The number of digits defined in response to SPN plus the number of digits defined in response to ARRN cannot exceed the number of digits defined by the response to FLEN, (i.e., Number of SPN digits + number of ARRN digits ≤ number of digits defined by response to FLEN.)
	<CR>	Enter a Carriage Return by itself to have ITEI prompted.
		Precede Alternate Routing Remote Number with X to remove.
- ARLI		Alternate Route List Index (Prompted if the response to ARRN is a number.)
	0 - 999	Enter any Route List Block number defined in LD 86 except the number entered in response to the previous RLI prompt.
	<CR>	Enter a Carriage Return by itself to leave the existing ARLI entry unchanged.
...		

Customer Data Block administration (Pre-Release 21)

LD 15 – The Customer Data Block administration overlay is modified to allow or deny Vacant Number Routing and modify the NARS (Network Alternate Route Selection) Interdigit Timer.

Prompt	Response	Description
REQ:	NEW, CHG	New, or change.
TYPE:	CDB	Customer Data Block
CUST	0-99	Customer number.
...		
AC2		Access Code 2
	NPA	E.164 National
	NXX	E.164 Subscriber
	INTL	International
	SPN	Special Number
	LOC	Location Code
...		

VNR	(NO) YES	Vacant Number Routing Prompted only if FNP package (160) is equipped. Enter NO if vacant numbers are not to be routed to another node for treatment. Enter YES if vacant numbers are to be routed to another node for treatment. For nodes connected by trunks that use in-band signaling (DTI, DTI2, or analog trunks): The VNR setting in the terminating node's Customer Data Block determines whether or not to use Vacant Number Routing. For nodes connected by trunks that use out-of-band signaling (ISDN or ISL trunks): The VNR setting in the originating node's Customer Data Block determines whether or not to use Vacant Number Routing. Default is NO.
- RLI	0-999	Route List Index Enter route list, defined in LD 86, to be used by Vacant Number Routing.
- FLEN	1-(16)	Flexible length of digits expected
- CDPL	1-(10)	Coordinated Dialing Plan Length Enter the maximum number of Coordinated Dialing Plan (CDP) digits expected by Vacant Number Routing. Default is 10 digits.
- LOCL	1-(10)	Location Code Length Enter the maximum number of Location (LOC) digits expected by Vacant Number Routing. Default is 10 digits.
NIT	2-(8)	NARS (Network Alternate Route Selection) Interdigit Timer Prompted if NARS package (58) is equipped. Enter the number of seconds allowed between CDP or LOC digits before end-of-dial processing is invoked. Default is eight (8) seconds.
...		

Customer Data Block administration (Release 21 & 22)

LD 15 – The Customer Data Block administration overlay is modified to allow or deny Vacant Number Routing and modify the NARS (Network Alternate Route Selection) Interdigit Timer.)

Prompt	Response	Description
REQ:	CHG	Change existing data block.
TYPE:	NET	Networking
CUST	0-99	Customer number.
...		
AC2		Access Code 2
	NPA	E.164 National
	NXX	E.164 Subscriber
	INTL	INternational
	SPN	Special Number
	LOC	Location Code
...		

VNR	(NO) YES	Vacant Number Routing Prompted only if FNP package (160) is equipped. Enter NO if vacant numbers are not to be routed to another node for treatment. Enter YES if vacant numbers are to be routed to another node for treatment. For nodes connected by trunks that use in-band signaling (DTI, DTI2, or analog trunks): The VNR setting in the terminating node's Customer Data Block determines whether or not to use Vacant Number Routing. For nodes connected by trunks that use out-of-band signaling (ISDN or ISL trunks): The VNR setting in the originating node's Customer Data Block determines whether or not to use Vacant Number Routing. Default is NO.
- RLI	0-999	Route List Index Enter route list, defined in LD 86, to be used by Vacant Number Routing.
- FLEN	1-(16)	Flexible length of digits expected
- CDPL	1-(10)	Coordinated Dialing Plan Length Enter the maximum number of Coordinated Dialing Plan (CDP) digits expected by Vacant Number Routing. Default is 10 digits.
- LOCL	1-(10)	Location Code Length Enter the maximum number of Location (LOC) digits expected by Vacant Number Routing. Default is 10 digits.
NIT	2-(8)	NARS (Network Alternate Route Selection) Interdigit Timer Prompted if NARS package (58) is equipped. Enter the number of seconds allowed between CDP or LOC digits before end-of-dial processing is invoked. Default is eight (8) seconds.
...		

Customer Data Block administration (Release 23)

LD 15 – Enable/disable the Flexible Numbering Plan feature.

Prompt	Response	Description
REQ:	CHG	Change existing data.
TYPE:	NET	Networking data.
CUST	xx	Customer number.
...		
AC2		Access Code 2
	NPA	E.164 National
	NXX	E.164 Subscriber
	INTL	International
	SPN	Special Number
	LOC	Location Code
FNP	(YES)	Enable the Flexible Numbering Plan feature (default).
	NO	Disable the Flexible Numbering Plan feature.
ISDN	(NO) YES	ISDN option.
...		
VNR	(NO) YES	Vacant Number Routing enabled (disabled). VNR is only prompted when FNP = YES. When FNP = NO, VNR is automatically set to NO and is, therefore, restricted.
- RLI	0-999	Route List Index Enter route list, defined in LD 86, to be used by Vacant Number Routing.
- FLEN	1-(16)	Flexible length of digits expected

- CDPL	1-(10)	Coordinated Dialing Plan Length Enter the maximum number of Coordinated Dialing Plan (CDP) digits expected by Vacant Number Routing. Default is 10 digits.
- LOCL	1-(10)	Location Code Length Enter the maximum number of Location (LOC) digits expected by Vacant Number Routing. Default is 10 digits.
...		